

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**  
**COLORADO RIVER BASIN REGION**

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA  
JANUARY 2010 WATER QUALITY ANALYSES

FIELD MEASUREMENTS	YSI INSTRUMENT				HACH 2100P
TIME (HH:MM)	TEMP (°C) <sup>1</sup>	pH	DO (mg/l) <sup>2</sup>	EC ( $\mu$ mhos/cm) <sup>3</sup>	TURBIDITY (NTU) <sup>4</sup>
10:45 AM	12.18	NC <sup>5</sup>	8.9	5256	61.4

FIELD OBSERVATIONS:

10:45 AM Ambient Air Temp~70°F. Water color green grey. No foam. Vinegary odor. Sky cloudy. No breeze.

BACTERIAL ANALYSIS ATS LABORATORY IN BRAWLEY, CA.			CONCENTRATION (MPN/100ml) <sup>6</sup>
TIME	STORET CODE	ANALYSIS METHOD	FECAL COLIFORM CONCENTRATION
10:45 AM	316315	Multiple Tube Fermentation	30,000

<sup>1</sup> Temperature is measured in units of degrees Celsius (°C)

<sup>2</sup> Dissolved oxygen (DO) is measured in units of milligrams per liter (mg/l)

<sup>3</sup> Electrical conductivity (EC) is measured in units of micromhos per centimeter ( $\mu$ mhos/cm)

<sup>4</sup> Turbidity is measured in units of Nephelometer Turbidity Units (NTU)

<sup>5</sup> pH was not measured

<sup>6</sup> Fecal Coliform density is reported as the most probable number per 100 milliliters of water sample (MPN/100 ml)

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NUTRIENT ANALYSIS CDPH- SOUTHERN CALIFORNIA LABORATORY <sup>7</sup>				
CONSTITUENT (GRAB)	STORET CODE	METHOD	REPORTING LIMIT	CONCENTRATION (mg/l) <sup>8</sup>
MBAS	38260	SM 5540C	0.1	1.078
Total Phosphate	00665	EPA 365.4	0.5	2.04
O-Phosphate Phosphorous	00665	EPA 300.1	0.4	0.649
Phenol	32730	EPA 420.1	0.05	<RL <sup>9</sup>
Cyanide	00720	SM 4500CN(E)	0.05	<RL
Ammonia - Nitrogen	00610	SM 4500D	0.1	8.94
Nitrate - Nitrogen	71850	EPA 300.1	0.1	1.52
Nitrite - Nitrogen	00630	EPA 300.1	0.1	0.344
Hardness (as CaCO <sub>3</sub> )	00900	SM 2340C	1	981
Total Alkalinity (CaCO <sub>3</sub> )	00410	SM 2320B	1	326
Bicarbonate	00440	SM 2320B	1	NR <sup>10</sup>
Total Dissolved Solids	70300	EPA 160.1	10	3360
Total Suspended Solids	00530	EPA 160.2	10	45.5
Turbidity (NTU)	82078	EPA 180.1	0.1	44.3
BOD	00310	SM 5210B	2	32.8
COD	00340	SM 5220	1	71.4

<sup>7</sup> California State Department of Public Health, Division of Drinking Water and Environmental Management, Sanitation & Radiation Laboratory (South) in Los Angeles, CA

<sup>8</sup> These concentrations are reported in units of milligrams per liter (mg/l)

<sup>9</sup> Analysis results were reported as less than the Analytical Reporting Limit

<sup>10</sup> Not reported

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METAL ANALYSIS CDPH – SOUTHERN CALIFORNIA LABORATORY				
CONSTITUENT (GRAB)	STORET CODE	METHOD	REPORTING LIMIT	CONCENTRATION (µg/l) <sup>11</sup>
As-Arsenic	1002	EPA 200.8	1	3.81
Cd-Cadmium	1027	EPA 200.8	1	<RL
Cr-Chromium	1034	EPA 200.8	10	<RL
Cu-Copper	1042	EPA 200.8	50	<RL
Pb-Lead	1051	EPA 200.8	5	<RL
Se-Selenium	1147	EPA 200.8	5	6.23
Zn-Zinc	1092	EPA 200.8	50	<RL
Hg-Mercury	71900	EPA 200.8	1	<RL

<sup>11</sup> These concentrations are reported in units of micrograms per liter (µg/l)